



June 2008

**DEPARTMENT OF EDUCATION**  
2007–2008 School Year Reports

Dear School Board Members and School Personnel:

The Maine Educational Assessment (MEA) is the State's measure of student progress in achieving the State standards known as *Learning Results*, adopted by the Maine Legislature in 1997. These *Learning Results* established goals for what all students should know and be able to do at certain times in their school careers and are the basis for Grade Level/Span Expectations, which describe the assessment standards for each grade. The MEA is administered to students in all grades 3 through 8 to meet state assessment requirements and the requirements of the federal *No Child Left Behind Act*.

The 2007-2008 MEA summary reports contain the results of student achievement in reading and mathematics at all grades, science and technology at grades 4 and 8, and writing at grade 5 based on achievement standards set in 2006 and disaggregated by student and school characteristics. This report, together with MEA individual student and subject-specific class analysis reports, provides support for use in program evaluation and planning.

MEA results reflect scores based on test questions that are taken in common by the approximately 15,000 students in each grade level. Students' scores in each content area are based on answers to a combination of multiple-choice questions and questions that require students to construct an answer. The grade 5 writing reports provide information on a student's ability to respond to a prompt measuring narrative writing. More information about the design of the MEA is available at [www.maine.gov/education/mea/index.htm](http://www.maine.gov/education/mea/index.htm).

I look forward to working with you in support of our continued efforts to improve the quality and effectiveness of the instructional opportunities designed to help all students achieve the high standards of the *Learning Results* and demonstrate that achievement through performance on the Maine Educational Assessment.

Sincerely,

Susan A. Gendron  
Commissioner of Education



## School Report Grade 8

Test Date: March 2008  
Code: 10161176  
SAU: Biddeford School Department  
School: Biddeford Middle School

### Contents of the Report

The report is divided into two main sections including a section describing the students tested and a separate section for the results in each content area.

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# SUMMARY OF SCORES

Test Date: March 2008

Grade: 8

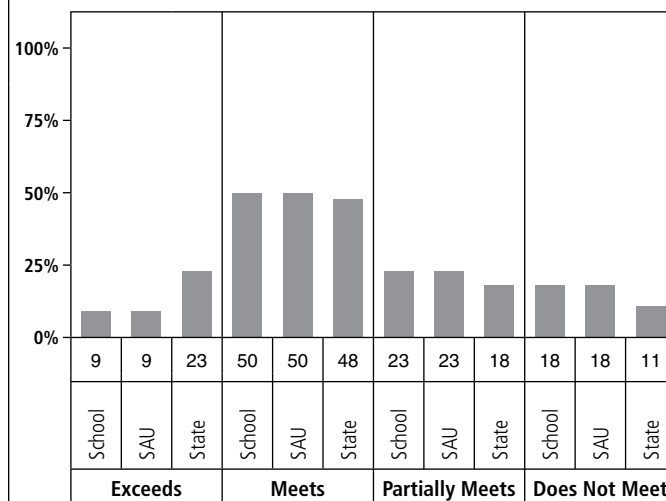
SAU: Biddeford School Department

School: Biddeford Middle School

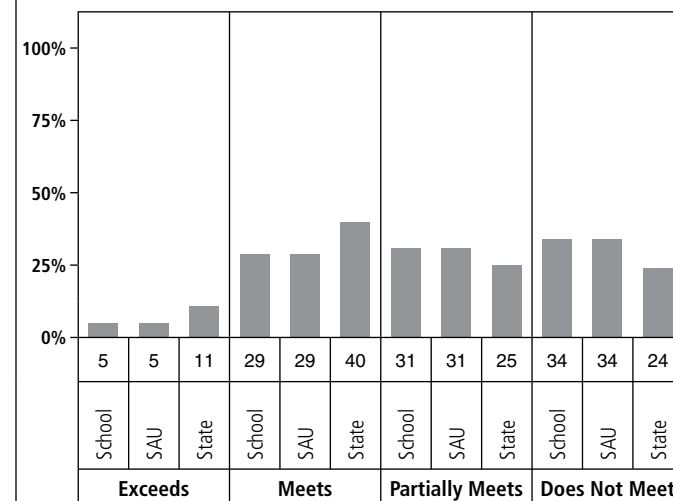
## Summary of School, SAU, and State Scores

Year	Average Scaled Score		
	School	SAU	State
<b>ELA – Reading</b>			
2005–2006	838	838	845
2006–2007	843	842	847
<b>2007–2008</b>	<b>844</b>	<b>844</b>	<b>849</b>
Cum. Avg. *	841	841	847
<b>Mathematics</b>			
2005–2006	833	833	840
2006–2007	836	835	842
<b>2007–2008</b>	<b>835</b>	<b>835</b>	<b>841</b>
Cum. Avg. *	835	834	841
<b>Science &amp; Technology</b>			
2005–2006	843	843	846
2006–2007	844	844	847
<b>2007–2008</b>	<b>845</b>	<b>845</b>	<b>847</b>
Cum. Avg. *	844	844	847

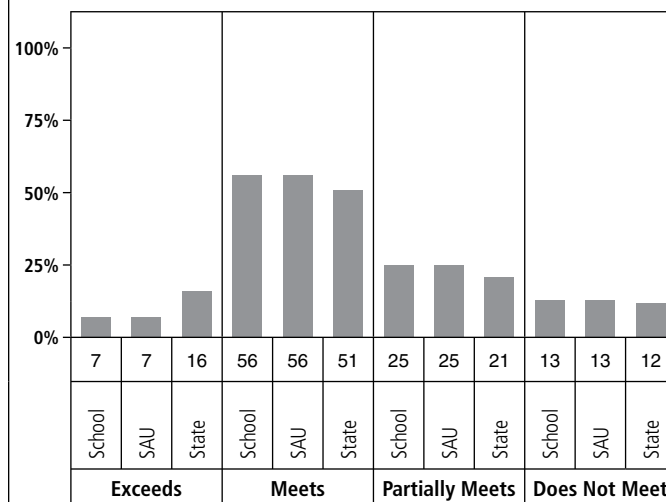
## ELA – READING



## MATHEMATICS



## SCIENCE AND TECHNOLOGY



\*Cumulative averages are weighted, i.e., the scaled scores are averaged proportionally based on the numbers of students in each year.

# SUMMARY OF STUDENT PARTICIPATION

Test Date: March 2008  
 Grade: 8  
 SAU: Biddeford School Department  
 School: Biddeford Middle School

CATEGORY OF PARTICIPATION	Enrollment <sup>1</sup> during testing window						CONTENT AREA PARTICIPATION <sup>2</sup>																							
							ELA-Reading						Mathematics						Science and Technology											
	School		SAU		State		School		SAU		State		School		SAU		State		School		SAU		State		School		SAU		State	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
Total number of students	213	100	215	100	15274	100	210	99	212	99	15102	99	210	99	212	99	15097	99	210	99	212	99	15080	99						
Ethnicity African American/Black	6	3	6	3	368	2	6	100	6	100	356	97	6	100	6	100	360	98	6	100	6	100	356	97						
American Indian or Native Alaskan	0	0	0	0	120	1	0	0	0	0	117	98	0	0	0	0	117	98	0	0	0	0	117	98						
Asian or Pacific Islander	4	2	4	2	186	1	3	75	3	75	181	97	3	75	3	75	182	98	3	75	3	75	182	98						
Hispanic	2	1	2	1	139	1	2	100	2	100	136	98	2	100	2	100	136	98	2	100	2	100	136	98						
Caucasian/White	201	94	203	94	14461	95	199	99	201	99	14312	99	199	99	201	99	14302	99	199	99	201	99	14289	99						
Not Reported	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
Identified disability	32	15	34	16	2508	16	32	100	34	100	2446	98	32	100	34	100	2441	98	32	100	34	100	2431	98						
Current LEP	4	2	4	2	327	2	3	75	3	75	316	97	3	75	3	75	322	99	3	75	3	75	322	99						
Economically disadvantaged	90	42	91	42	5420	35	88	98	89	98	5329	99	88	98	89	98	5324	99	88	98	89	98	5313	98						
Migrant	0	0	0	0	7	0	0	0	0	0	7	100	0	0	0	0	7	100	0	0	0	0	7	100						

MODE OF PARTICIPATION <sup>3</sup>	ELA-Reading						Mathematics						Science and Technology																	
	School		SAU		State		School		SAU		State		School		SAU		State		School		SAU		State		School		SAU		State	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
<b>Participation without accommodations</b>	182	85	182	85	12703	83	182	85	182	85	12694	83	182	85	182	85	12710	83												
Identified disability (PET/IEP)	4	2	4	2	437	3	4	2	4	2	421	3	4	2	4	2	445	4												
LEP	2	1	2	1	172	1	2	1	2	1	172	1	2	1	2	1	173	1												
504 plan	0	0	0	0	229	2	0	0	0	0	231	2	0	0	0	0	230	2												
<b>Participation with accommodations</b>	25	12	25	12	2221	15	25	12	25	12	2227	15	25	12	25	12	2197	14												
Identified disability (PET/IEP)	25	100	25	100	1832	82	25	100	25	100	1844	83	25	100	25	100	1813	83												
LEP	0	0	0	0	136	6	0	0	0	0	143	6	0	0	0	0	142	6												
504 plan	0	0	0	0	68	3	0	0	0	0	66	3	0	0	0	0	66	3												
Other	0	0	0	0	213	10	0	0	0	0	202	9	0	0	0	0	204	9												
<b>Participation through alternate assessment (PAAP)</b>	3	1	5	2	177	1	3	1	5	2	176	1	3	1	5	2	173	1												
Identified disability (PET/IEP)	3	100	5	100	177	100	3	100	5	100	176	100	3	100	5	100	173	100												
LEP	1	33	1	20	7	4	1	33	1	20	7	4	1	33	1	20	7	4												
504 plan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
<b>Approved non-participation in reading – 1st year LEP</b>	0	0	0	0	1	0																								
<b>Approved non-participation – special consideration</b>	0	0	0	0	32	0	0	0	0	0	34	0	0	0	0	0	34	0												
<b>Non-participation – other</b>	3	1	3	1	140	1	3	1	3	1	143	1	3	1	3	1	160	1												

1 Percents are the percentage of students enrolled in each participation category.

2 Percents are the percentage of students, including those who participated through alternate assessment (PAAP), who participated in the content area.

3 Percents are the percentage of students in each content area by mode.

# ELA–READING RESULTS

Test Date:	March 2008
Grade:	8
SAU:	Biddeford School Department
School:	Biddeford Middle School

ACHIEVEMENT LEVEL DEFINITIONS		STUDENTS AT EACH ACHIEVEMENT LEVEL					
		School		SAU		State	
		N	%	N	%	N	%
<b>Exceeds the Standards</b> – The student’s work demonstrates the ability to read and interpret literary and informational texts appropriate for the grade level by drawing in-depth inferences, analyzing texts for subtle clues, synthesizing information across texts, and using his/her knowledge of text features and literary devices to make deeper connections within or across texts to increase comprehension. (scaled score 861–880)	2005-2006	16	7	16	6	2695	17
	2006-2007	18	9	18	9	2407	16
	<b>2007-2008</b>	<b>18</b>	<b>9</b>	<b>18</b>	<b>9</b>	<b>3428</b>	<b>23</b>
	Cum. Total*	52	8	52	8	8530	18
<b>Meets the Standards</b> – The student’s work demonstrates the ability to read and interpret literary and informational texts appropriate for the grade level by drawing inferences, summarizing main ideas and providing supporting details, connecting ideas within and across texts, and using his/her knowledge of text features and literary devices to increase comprehension. (scaled score 841–860)	2005-2006	95	39	97	39	6830	42
	2006-2007	86	45	86	44	7494	49
	<b>2007-2008</b>	<b>103</b>	<b>50</b>	<b>103</b>	<b>50</b>	<b>7179</b>	<b>48</b>
	Cum. Total*	284	44	286	44	21503	46
<b>Partially Meets the Standards</b> – The student’s work demonstrates an inconsistent ability to read and interpret literary and informational texts appropriate for the grade level. The student’s ability to draw inferences, summarize main ideas and provide supporting details, connect ideas within and across texts, and use his/her knowledge of text features and literary devices varies depending on the texts. (scaled score 829–840)	2005-2006	62	26	63	26	3741	23
	2006-2007	53	27	53	27	3628	24
	<b>2007-2008</b>	<b>48</b>	<b>23</b>	<b>48</b>	<b>23</b>	<b>2706</b>	<b>18</b>
	Cum. Total*	163	25	164	25	10075	22
<b>Does Not Meet the Standards</b> – The student’s work demonstrates a limited ability to read and interpret literary and informational texts appropriate for the grade level. The student’s responses are often vague or incorrect leaving the impression that the student found it difficult to draw inferences, summarize main ideas and provide supporting details, connect ideas within and across texts, or use his/her knowledge of text features and literary devices to support comprehension. (scaled score 800–828)	2005-2006	70	29	71	29	3003	18
	2006-2007	36	19	39	20	1810	12
	<b>2007-2008</b>	<b>38</b>	<b>18</b>	<b>38</b>	<b>18</b>	<b>1611</b>	<b>11</b>
	Cum. Total*	144	22	148	23	6424	14

Learning Results Content Standard Cluster	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
<b>Total Reading Cluster</b>	<b>56</b>	<b>100</b>	33.4	59.6	33.4	59.6	36.9	65.9
<b>Literary Text</b>	<b>28</b>	<b>50</b>	16.4	58.6	16.4	58.6	18.3	65.4
<b>Informational Text</b>	<b>28</b>	<b>50</b>	17.0	60.7	17.0	60.7	18.6	66.4

The Maine *Learning Results* reading cluster includes Content Standards A (Process of Reading), B (Literature and Culture), and D (Informational Texts). The MEA assesses students’ reading skills based on questions related to two types of reading passages: literary and informational. Passages include both long and short texts, selected from developmentally appropriate works. Items on the MEA measure Grade Level Expectations, based on Maine’s 1997 *Learning Results*, which can be found at <http://www.maine.gov/education/lsalt/gles.htm>.

# ELA-READING RESULTS

## (CONTINUED)

Test Date: March 2008  
 Grade: 8  
 SAU: Biddeford School Department  
 School: Biddeford Middle School

REPORTING CATEGORIES	School										SAU						State					
	Tested	E		M		P		D		Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score
	N	N	%	N	%	N	%	N	%		N	%	%	%	%		N	%	%	%	%	
<b>All Students</b>	207	18	9	103	50	48	23	38	18	844	207	9	50	23	18	844	14924	23	48	18	11	849
<b>Ethnicity</b>																						
African American/Black	6	0	0	2	33	3	50	1	17	838	6	0	33	50	17	838	348	11	38	22	29	840
American Indian or Native Alaskan	0										0						117	9	43	29	19	842
Asian or Pacific Islander	2										2						179	32	39	18	11	852
Hispanic	1										1						131	18	38	27	17	846
Caucasian/White	198	18	9	100	51	43	22	37	19	844	198	9	51	22	19	844	14149	23	49	18	10	850
Not Reported	0										0						0					
<b>Identified disability</b>																						
Yes	29	1	3	5	17	8	28	15	52	832	29	3	17	28	52	832	2269	3	24	32	42	833
No	178	17	10	98	55	40	22	23	13	846	178	10	55	22	13	846	12655	27	52	16	5	852
<b>Current LEP</b>																						
Yes	2										2						308	8	30	27	34	837
No	205	18	9	103	50	46	22	38	19	844	205	9	50	22	19	844	14616	23	48	18	10	850
<b>Economically disadvantaged</b>																						
Yes	85	3	4	36	42	26	31	20	24	840	85	4	42	31	24	840	5222	12	44	25	19	843
No	122	15	12	67	55	22	18	18	15	846	122	12	55	18	15	846	9702	29	50	14	7	853
<b>Migrant</b>																						
Yes	0										0						7	0	86	0	14	850
No	207	18	9	103	50	48	23	38	18	844	207	9	50	23	18	844	14917	23	48	18	11	849
<b>Gender</b>																						
Female	100	8	8	55	55	23	23	14	14	845	100	8	55	23	14	845	7198	30	48	15	7	853
Male	107	10	9	48	45	25	23	24	22	842	107	9	45	23	22	842	7726	17	49	21	14	847
Not Reported	0										0						0					
<b>Title 1A targeted program</b>																						
Yes	29	0	0	8	28	14	48	7	24	837	29	0	28	48	24	837	807	9	41	32	18	842
No	178	18	10	95	53	34	19	31	17	845	178	10	53	19	17	845	14117	24	49	17	10	850
<b>Gifted/talented program</b>																						
Yes	0										0						592	71	28	1	0	867
No	207	18	9	103	50	48	23	38	18	844	207	9	50	23	18	844	14332	21	49	19	11	849

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested. N = Number

# ELA–READING RESULTS

## (QUESTIONNAIRE ITEMS)

Test Date: March 2008  
 Grade: 8  
 SAU: Biddeford School Department  
 School: Biddeford Middle School

QUESTIONNAIRE ITEMS	School										SAU						State					
	Students in Each Category	E		M		P		D		Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%		%	%	%	%	%		%	%	%	%	%	
<b>How much homework do you do on school nights?</b>																						
A. none	8	1	6	5	29	6	35	5	29	838	8	6	29	35	29	838	9	10	39	24	26	841
B. less than one hour	56	8	7	63	54	25	22	20	17	844	56	7	54	22	17	844	46	20	50	20	11	849
C. one to two hours	32	8	12	32	48	15	23	11	17	845	32	12	48	23	17	845	41	28	49	15	7	852
D. more than two hours	3	1	14	3	43	1	14	2	29	842	3	14	43	14	29	842	5	28	44	15	12	850
<b>How well do the questions that you have just been given on this MEA test match what you have learned in school about reading?</b>																						
A. The questions on the test match what I have learned in reading class.	25	5	10	24	46	10	19	13	25	843	25	10	46	19	25	843	33	31	48	14	7	853
B. They match some of what I have learned.	59	11	9	70	57	25	20	16	13	846	59	9	57	20	13	846	53	21	51	19	9	849
C. They match just a little of what I have learned.	11	1	5	8	36	8	36	5	23	839	11	5	36	36	23	839	11	14	41	25	20	844
D. There is no match.	5	1	10	1	10	4	40	4	40	835	5	10	10	40	40	835	3	6	34	26	35	836
<b>Which of the following best describes how you rate yourself as a student in reading?</b>																						
A. very good	26	11	20	27	50	10	19	6	11	849	26	20	50	19	11	849	31	42	44	8	6	857
B. good	53	7	6	58	53	24	22	20	18	844	53	6	53	22	18	844	49	19	54	19	9	849
C. fair	19	0	0	18	46	12	31	9	23	838	19	0	46	31	23	838	18	5	42	31	22	840
D. poor	2	0	0	0	0	1	25	3	75	824	2	0	0	25	75	824	2	4	29	32	34	835
<b>How difficult was the reading part of this test?</b>																						
A. harder than my regular schoolwork	26	6	11	29	55	11	21	7	13	845	26	11	55	21	13	845	15	16	44	22	18	845
B. about the same as my regular schoolwork	64	9	7	65	50	29	22	26	20	843	64	7	50	22	20	843	65	23	49	18	9	850
C. easier than my regular schoolwork	10	2	10	9	43	6	29	4	19	844	10	10	43	29	19	844	19	30	49	14	8	852
<b>How difficult were the reading passages on this test?</b>																						
A. Most of the passages were more difficult than what I normally read.	14	1	4	10	36	9	32	8	29	837	14	4	36	32	29	837	9	8	33	28	31	838
B. Most of the passages were about the same as what I normally read.	56	8	7	60	52	26	23	21	18	844	56	7	52	23	18	844	53	17	51	21	11	848
C. Most of the passages were easier than what I normally read.	30	9	15	32	52	11	18	9	15	846	30	15	52	18	15	846	38	36	48	11	5	855
<b>How hard did you try on the reading part of this test?</b>																						
A. I tried harder on this test than I do on my regular schoolwork.	51	10	10	61	59	19	18	14	13	846	51	10	59	18	13	846	43	23	48	19	10	849
B. I tried about the same as I do on my regular schoolwork.	44	8	9	38	43	23	26	20	22	842	44	9	43	26	22	842	51	25	49	17	9	851
C. I did not try as hard on this test as I do on my regular schoolwork.	5	0	0	3	27	4	36	4	36	834	5	0	27	36	36	834	6	9	43	24	23	842
<b>How much time do you spend reading at home each day?</b>																						
A. more than one hour	16	5	15	17	52	6	18	5	15	846	16	15	52	18	15	846	18	31	47	13	9	852
B. 20 minutes to an hour	39	8	10	42	53	16	20	13	16	845	39	10	53	20	16	845	41	28	49	15	7	852
C. less than 20 minutes	17	1	3	20	59	9	26	4	12	845	17	3	59	26	12	845	13	20	49	18	12	848
D. I rarely read at home.	29	4	7	23	39	16	27	16	27	840	29	7	39	27	27	840	28	12	47	26	16	844
<b>How do you feel about the following statement?</b> <i>"My knowledge of reading will be useful to me as an adult."</i>																						
A. strongly agree	42	10	11	54	62	13	15	10	11	848	42	11	62	15	11	848	43	31	48	14	7	853
B. agree	46	8	8	40	42	27	28	20	21	842	46	8	42	28	21	842	48	18	50	20	12	848
C. disagree	10	0	0	8	38	6	29	7	33	835	10	0	38	29	33	835	6	11	43	24	21	843
D. strongly disagree	1	0	0	0	0	1	50	1	50	831	1	0	0	50	50	831	2	6	36	32	26	839
<b>Optional school/SAU question</b>																						
A.	31	0	0	1	25	0	0	3	75	833	31	0	25	0	75	833						
B.	38	0	0	1	20	4	80	0	0	837	38	0	20	80	0	837						
C.	31	0	0	1	25	1	25	2	50	834	31	0	25	25	50	834						
D.	0										0											

# MATHEMATICS RESULTS

Test Date: March 2008  
Grade: 8  
SAU: Biddeford School Department  
School: Biddeford Middle School

ACHIEVEMENT LEVEL DEFINITIONS		STUDENTS AT EACH ACHIEVEMENT LEVEL					
		School		SAU		State	
		N	%	N	%	N	%
<b>Exceeds the Standards</b> – The student’s work demonstrates in-depth understanding of essential concepts in mathematics, including the ability to make multiple connections among central ideas. The student’s responses demonstrate the ability to synthesize information; analyze and solve difficult problems, including developing and implementing strategies, efficiently and accurately performing procedures, and recording and justifying solutions; and explain complex concepts. (scaled score 861–880)	2005-2006	11	5	11	4	1714	11
	2006-2007	13	7	13	7	1952	13
	<b>2007-2008</b>	<b>11</b>	<b>5</b>	<b>11</b>	<b>5</b>	<b>1657</b>	<b>11</b>
	Cum. Total*	35	5	35	5	5323	11
<b>Meets the Standards</b> – The student’s work demonstrates a general understanding of essential concepts in mathematics, including the ability to make connections among central ideas. The student’s responses demonstrate the ability to analyze and solve problems including developing and implementing strategies, to perform procedures, and to record and explain solutions and concepts. The student’s work may contain minor errors. (scaled score 841–860)	2005-2006	55	23	55	22	5533	34
	2006-2007	62	32	62	32	5870	38
	<b>2007-2008</b>	<b>61</b>	<b>29</b>	<b>61</b>	<b>29</b>	<b>5956</b>	<b>40</b>
	Cum. Total*	178	28	178	27	17359	37
<b>Partially Meets the Standards</b> – The student’s work demonstrates incomplete understanding of essential concepts in mathematics and inconsistent connections among central ideas. The student’s responses demonstrate some ability to analyze and solve problems, and explain concepts. Problem solving strategies may be flawed, procedures performed inaccurately, methods not recorded and/or problems not completed. (scaled score 829–840)	2005-2006	86	35	88	36	4764	29
	2006-2007	44	23	44	22	3982	26
	<b>2007-2008</b>	<b>65</b>	<b>31</b>	<b>65</b>	<b>31</b>	<b>3729</b>	<b>25</b>
	Cum. Total*	195	30	197	30	12475	27
<b>Does Not Meet the Standards</b> – The student’s work demonstrates limited understanding of essential concepts in mathematics and infrequent or inaccurate connections among central ideas. The student’s responses demonstrate minimal ability to solve problems and explain concepts. Problem solving strategies and procedures are often flawed or inappropriate and there may be many omissions. (scaled score 800–828)	2005-2006	91	37	93	38	4251	26
	2006-2007	74	38	77	39	3534	23
	<b>2007-2008</b>	<b>70</b>	<b>34</b>	<b>70</b>	<b>34</b>	<b>3579</b>	<b>24</b>
	Cum. Total*	235	37	240	37	11364	24

Learning Results Content Standard Clusters	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
Cluster 1: Numbers and Operations	16	29	7.3	45.6	7.3	45.6	8.4	52.5
Cluster 2: Shape and Size	14	25	4.9	35.0	4.9	35.0	5.9	42.1
Cluster 3: Mathematical Decision Making	8	14	4.1	51.3	4.1	51.3	4.6	57.5
Cluster 4: Patterns	18	32	7.5	41.7	7.5	41.7	8.9	49.4

- Cluster 1: Numbers and Operations**  
A. Numbers and Number Sense  
B. Computation  
I. Discrete Mathematics (grades 3 and 4 only)
- Cluster 2: Shape and Size**  
E. Geometry  
F. Measurement
- Cluster 3: Mathematical Decision Making**  
C. Data Analysis and Statistics  
D. Probability
- Cluster 4: Patterns**  
G. Patterns, Relations, and Functions  
H. Algebra Concepts  
K. Mathematical Communication

Each content standard in the clusters above is defined in Maine’s 1997 *Learning Results*, which are the basis for Grade Level Expectations. Each item on the MEA measures a grade level expectation, which can be found at <http://www.maine.gov/education/lsalt/gles.htm>.

# MATHEMATICS RESULTS

## (CONTINUED)

Test Date: March 2008  
 Grade: 8  
 SAU: Biddeford School Department  
 School: Biddeford Middle School

REPORTING CATEGORIES	School										SAU						State					
	Tested	E		M		P		D		Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score
	N	N	%	N	%	N	%	N	%		N	%	%	%	%		N	%	%	%	%	
<b>All Students</b>	207	11	5	61	29	65	31	70	34	835	207	5	29	31	34	835	14921	11	40	25	24	841
<b>Ethnicity</b>																						
African American/Black	6	0	0	1	17	2	33	3	50	826	6	0	17	33	50	826	352	2	23	23	52	828
American Indian or Native Alaskan	0										0						117	5	22	33	39	832
Asian or Pacific Islander	2										2						181	24	42	20	14	848
Hispanic	1										1						131	7	34	26	33	836
Caucasian/White	198	10	5	60	30	63	32	65	33	836	198	5	30	32	33	836	14140	11	41	25	23	841
Not Reported	0										0						0					
<b>Identified disability</b>																						
Yes	29	0	0	6	21	7	24	16	55	826	29	0	21	24	55	826	2265	1	14	22	62	824
No	178	11	6	55	31	58	33	54	30	837	178	6	31	33	30	837	12656	13	45	26	17	844
<b>Current LEP</b>																						
Yes	2										2						315	5	24	20	51	828
No	205	11	5	61	30	65	32	68	33	836	205	5	30	32	33	836	14606	11	40	25	23	841
<b>Economically disadvantaged</b>																						
Yes	85	1	1	22	26	27	32	35	41	832	85	1	26	32	41	832	5217	5	30	29	37	834
No	122	10	8	39	32	38	31	35	29	838	122	8	32	31	29	838	9704	15	45	23	17	845
<b>Migrant</b>																						
Yes	0										0						7	0	43	43	14	838
No	207	11	5	61	29	65	31	70	34	835	207	5	29	31	34	835	14914	11	40	25	24	841
<b>Gender</b>																						
Female	100	5	5	25	25	35	35	35	35	834	100	5	25	35	35	834	7199	11	40	26	23	841
Male	107	6	6	36	34	30	28	35	33	837	107	6	34	28	33	837	7722	11	40	24	25	841
Not Reported	0										0						0					
<b>Title 1A targeted program</b>																						
Yes	29	0	0	5	17	13	45	11	38	831	29	0	17	45	38	831	806	3	20	30	47	831
No	178	11	6	56	31	52	29	59	33	836	178	6	31	29	33	836	14115	12	41	25	23	842
<b>Gifted/talented program</b>																						
Yes	0										0						592	58	39	2	1	864
No	207	11	5	61	29	65	31	70	34	835	207	5	29	31	34	835	14329	9	40	26	25	840

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested. N = Number



# MATHEMATICS RESULTS

## (QUESTIONNAIRE ITEMS)

Test Date: March 2008  
 Grade: 8  
 SAU: Biddeford School Department  
 School: Biddeford Middle School

QUESTIONNAIRE ITEMS	School										SAU						State					
	Students in Each Category	E		M		P		D		Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score
		%	N	%	N	%	N	%	N			%	%	%	%			%	%	%	%	
How much homework do you do on school nights?																						
A. none	8	1	6	1	6	4	24	11	65	826	8	6	6	24	65	826	9	5	30	23	41	833
B. less than one hour	56	8	7	38	33	34	29	36	31	837	56	7	33	29	31	837	46	10	40	26	25	840
C. one to two hours	32	2	3	20	30	25	38	19	29	836	32	3	30	38	29	836	41	14	42	25	19	843
D. more than two hours	3	0	0	2	29	2	29	3	43	828	3	0	29	29	43	828	5	14	38	23	24	842
How well do the questions that you have just been given on this MEA test match what you have learned in school about mathematics?																						
A. The questions on the test match what I have learned in mathematics class.	24	5	10	14	29	18	37	12	24	838	24	10	29	37	24	838	30	17	43	22	18	845
B. They match some of what I have learned.	51	6	6	34	32	32	30	33	31	837	51	6	32	30	31	837	50	10	42	26	22	841
C. They match just a little of what I have learned.	19	0	0	11	29	13	34	14	37	832	19	0	29	34	37	832	17	6	32	29	33	836
D. There is no match.	6	0	0	0	0	2	17	10	83	821	6	0	0	17	83	821	4	3	18	25	54	828
Which of the following best describes how you rate yourself as a student in mathematics?																						
A. very good	21	8	19	17	40	10	23	8	19	846	21	19	40	23	19	846	26	29	46	14	11	851
B. good	44	3	3	30	33	34	38	23	26	836	44	3	33	38	26	836	45	7	46	27	20	841
C. fair	28	0	0	13	22	15	26	30	52	829	28	0	22	26	52	829	23	1	26	34	38	833
D. poor	7	0	0	0	0	6	43	8	57	825	7	0	0	43	57	825	5	1	14	29	57	827
How difficult was the mathematics part of this test?																						
A. harder than my regular schoolwork	48	4	4	27	28	28	29	36	38	833	48	4	28	29	38	833	34	4	35	28	32	836
B. about the same as my regular schoolwork	46	7	8	28	30	28	30	29	32	838	46	8	30	30	32	838	52	10	43	26	21	842
C. easier than my regular schoolwork	7	0	0	4	31	6	46	3	23	839	7	0	31	46	23	839	13	33	40	14	13	852
How hard did you try on the mathematics part of this test?																						
A. I tried harder on this test than I do on my regular schoolwork.	58	5	4	36	31	38	33	37	32	835	58	4	31	33	32	835	44	10	40	26	25	840
B. I tried about the same as I do on my regular schoolwork.	36	6	8	21	29	23	32	22	31	838	36	8	29	32	31	838	50	13	42	24	21	843
C. I did not try as hard on this test as I do on my regular schoolwork.	6	0	0	1	8	3	25	8	67	822	6	0	8	25	67	822	6	9	27	27	38	835
How often do you use laptops in mathematics class?																						
A. almost every day	4	0	0	0	0	3	33	6	67	820	4	0	0	33	67	820	9	6	38	27	29	837
B. two or three days a week	16	2	6	12	38	11	34	7	22	838	16	6	38	34	22	838	16	8	38	27	27	839
C. two or three times each month	41	4	5	20	24	35	42	25	30	836	41	5	24	42	30	836	28	12	41	27	21	843
D. never or almost never	39	5	6	28	35	16	20	31	39	836	39	6	35	20	39	836	48	13	40	23	24	842
How often do you use calculators in mathematics class?																						
A. almost every day	8	0	0	5	31	4	25	7	44	831	8	0	31	25	44	831	38	14	42	23	21	843
B. two or three times a week	27	3	5	15	27	14	25	23	42	833	27	5	27	25	42	833	33	10	41	26	23	841
C. two or three times each month	39	7	9	28	35	24	30	21	26	840	39	9	35	30	26	840	18	10	36	27	27	840
D. never or almost never	26	1	2	12	23	23	43	17	32	833	26	2	23	43	32	833	11	7	34	26	33	836
How do you feel about the following statement?																						
“My knowledge of mathematics will be useful to me as an adult.”																						
A. strongly agree	48	9	9	36	36	33	33	21	21	841	48	9	36	33	21	841	54	14	44	23	18	844
B. agree	41	2	2	22	26	26	31	34	40	832	41	2	26	31	40	832	38	8	36	27	28	838
C. disagree	10	0	0	2	10	6	30	12	60	826	10	0	10	30	60	826	6	6	31	28	36	835
D. strongly disagree	1	0	0	0	0	0	0	2	100	822	1	0	0	0	100	822	2	3	23	25	49	831
Optional school/SAU question																						
A.	31	0	0	1	25	2	50	1	25	836	31	0	25	50	25	836						
B.	38	0	0	0	0	2	40	3	60	820	38	0	0	40	60	820						
C.	31	0	0	2	50	0	0	2	50	829	31	0	50	0	50	829						
D.	0										0											

# SCIENCE AND TECHNOLOGY RESULTS

Test Date: March 2008  
Grade: 8  
SAU: Biddeford School Department  
School: Biddeford Middle School

ACHIEVEMENT LEVEL DEFINITIONS		STUDENTS AT EACH ACHIEVEMENT LEVEL					
		School		SAU		State	
		N	%	N	%	N	%
<b>Exceeds the Standards</b> – The student’s work demonstrates in-depth understanding of essential concepts in science, including the ability to make multiple connections among central ideas. The student’s responses demonstrate the ability to synthesize information, analyze and solve difficult problems using the processes of scientific inquiry, and explain complex concepts using evidence and proper terminology to support and communicate logical conclusions. (scaled score 861–880)	2005-2006	25	10	25	10	1879	12
	2006-2007	18	9	18	9	2192	14
	<b>2007-2008</b>	<b>14</b>	<b>7</b>	<b>14</b>	<b>7</b>	<b>2371</b>	<b>16</b>
	Cum. Total*	57	9	57	9	6442	14
<b>Meets the Standards</b> – The student’s work demonstrates a general understanding of essential concepts in science, including the ability to make connections among central ideas. The student’s responses demonstrate the ability to analyze and solve routine problems using the processes of scientific inquiry and explain central concepts with sufficient clarity and accuracy to demonstrate general understanding. (scaled score 841–860)	2005-2006	108	45	110	45	8604	53
	2006-2007	93	48	93	48	7916	52
	<b>2007-2008</b>	<b>115</b>	<b>56</b>	<b>115</b>	<b>56</b>	<b>7630</b>	<b>51</b>
	Cum. Total*	316	49	318	49	24150	52
<b>Partially Meets the Standards</b> – The student’s work demonstrates incomplete understanding of essential concepts in science and inconsistent connections among central ideas. The student’s responses demonstrate some ability to analyze and solve problems using scientific inquiry but the quality of responses is inconsistent. Explanation of concepts may be incomplete or unclear. (scaled score 831–840)	2005-2006	67	28	68	28	3618	22
	2006-2007	45	23	46	24	3340	22
	<b>2007-2008</b>	<b>52</b>	<b>25</b>	<b>52</b>	<b>25</b>	<b>3175</b>	<b>21</b>
	Cum. Total*	164	26	166	26	10133	22
<b>Does Not Meet the Standards</b> – The student’s work demonstrates limited understanding of essential concepts in science and infrequent or inaccurate connections among central ideas. The student’s responses demonstrate minimal ability to solve problems and use the skills of scientific inquiry. There are many inaccuracies and explanations are illogical, incomplete, or missing. (scaled score 800–830)	2005-2006	42	17	43	17	2174	13
	2006-2007	36	19	38	19	1865	12
	<b>2007-2008</b>	<b>26</b>	<b>13</b>	<b>26</b>	<b>13</b>	<b>1731</b>	<b>12</b>
	Cum. Total*	104	16	107	17	5770	12

Learning Results Content Standard Clusters	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
Cluster 1: Life Sciences	14	25	8.0	57.1	8.0	57.1	8.1	57.9
Cluster 2: Physical Sciences	14	25	6.4	45.7	6.4	45.7	7.3	52.1
Cluster 3: Earth and Space Sciences	14	25	7.3	52.1	7.3	52.1	7.7	55.0
Cluster 4: Nature and Implications of Science	14	25	7.9	56.4	7.9	56.4	8.5	60.7

## Cluster 1: Life Sciences

- A. Classifying Life Forms
- B. Ecology
- C. Cells

## Cluster 2: Physical Sciences

- E. Structure of Matter
- H. Energy
- I. Motion

## Cluster 3: Earth and Space Sciences

- D. Continuity and Change
- F. The Earth
- G. The Universe

## Cluster 4: Nature and Implications of Science

- J. Inquiry and Problem Solving
- K. Scientific Reasoning
- L. Communication
- M. Implications of Science & Technology

Each content standard in the clusters shown is defined in Maine’s 1997 *Learning Results*, which are the basis for science and technology Grade Span Expectations. Each item on the MEA measures a grade span expectation, which can be found at <http://www.maine.gov/education/lslat/gles.htm>.



# SCIENCE AND TECHNOLOGY RESULTS

## (CONTINUED)

Test Date: March 2008  
 Grade: 8  
 SAU: Biddeford School Department  
 School: Biddeford Middle School

REPORTING CATEGORIES	School										SAU						State					
	Tested	E		M		P		D		Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score
	N	N	%	N	%	N	%	N	%		N	%	%	%	%		N	%	%	%	%	
<b>All Students</b>	207	14	7	115	56	52	25	26	13	845	207	7	56	25	13	845	14907	16	51	21	12	847
<b>Ethnicity</b>																						
African American/Black	6	0	0	5	83	0	0	1	17	842	6	0	83	0	17	842	349	4	35	26	34	837
American Indian or Native Alaskan	0										0						117	8	40	28	24	840
Asian or Pacific Islander	2										2						181	20	50	15	15	849
Hispanic	1										1						131	5	50	22	23	842
Caucasian/White	198	14	7	109	55	51	26	24	12	845	198	7	55	26	12	845	14129	16	52	21	11	848
Not Reported	0										0						0					
<b>Identified disability</b>																						
Yes	29	1	3	9	31	12	41	7	24	838	29	3	31	41	24	838	2258	3	29	31	37	836
No	178	13	7	106	60	40	22	19	11	846	178	7	60	22	11	846	12649	18	55	20	7	850
<b>Current LEP</b>																						
Yes	2										2						315	4	29	25	42	834
No	205	14	7	114	56	51	25	26	13	845	205	7	56	25	13	845	14592	16	52	21	11	848
<b>Economically disadvantaged</b>																						
Yes	85	5	6	42	49	23	27	15	18	842	85	6	49	27	18	842	5206	8	45	28	20	842
No	122	9	7	73	60	29	24	11	9	846	122	7	60	24	9	846	9701	20	55	18	7	850
<b>Migrant</b>																						
Yes	0										0						7	29	57	14	0	852
No	207	14	7	115	56	52	25	26	13	845	207	7	56	25	13	845	14900	16	51	21	12	847
<b>Gender</b>																						
Female	100	4	4	53	53	29	29	14	14	843	100	4	53	29	14	843	7196	14	52	23	12	847
Male	107	10	9	62	58	23	21	12	11	846	107	9	58	21	11	846	7711	18	51	20	12	848
Not Reported	0										0						0					
<b>Title 1A targeted program</b>																						
Yes	29	0	0	12	41	11	38	6	21	839	29	0	41	38	21	839	804	6	38	34	22	841
No	178	14	8	103	58	41	23	20	11	845	178	8	58	23	11	845	14103	16	52	21	11	848
<b>Gifted/talented program</b>																						
Yes	0										0						592	63	35	1	0	865
No	207	14	7	115	56	52	25	26	13	845	207	7	56	25	13	845	14315	14	52	22	12	847

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested. N = Number

# SCIENCE AND TECHNOLOGY RESULTS

## (QUESTIONNAIRE ITEMS)

Test Date: March 2008  
Grade: 8  
SAU: Biddeford School Department  
School: Biddeford Middle School

QUESTIONNAIRE ITEMS	School										SAU						State					
	Students in Each Category	E		M		P		D		Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%		%	%	%	%	%		%	%	%	%	%	
<b>How much homework do you do on school nights?</b> A. none B. less than one hour C. one to two hours D. more than two hours	8 56 32 3	1 7 5 1	6 6 8 14	6 69 36 3	35 59 55 43	6 24 19 3	35 21 29 43	4 16 6 0	24 14 9 0	840 845 846 845	8 56 32 3	6 6 8 14	35 59 55 43	35 21 29 43	24 14 9 0	840 845 846 845	9 46 41 5	10 14 19 19	40 52 53 47	26 22 19 21	23 12 9 14	842 847 849 848
<b>How well do the questions that you have just been given on this MEA test match what you have learned in school about science?</b> A. The questions on the test match what I have learned in science class. B. They match some of what I have learned. C. They match just a little of what I have learned. D. There is no match.	28 43 18 11	3 6 3 2	5 7 8 9	34 46 24 9	60 52 65 41	12 25 9 6	21 28 24 27	8 12 1 5	14 13 3 23	844 844 847 842	28 43 18 11	5 7 8 9	60 52 65 41	21 28 24 27	14 13 3 23	844 844 847 842	29 49 18 5	19 16 13 9	54 51 51 39	19 22 23 29	9 11 13 23	849 848 846 842
<b>Which of the following best describes how you rate yourself as a student in science?</b> A. very good B. good C. fair D. poor	20 55 19 6	9 5 0 0	21 4 0 0	25 69 18 1	60 62 46 8	6 28 13 5	14 25 33 42	2 10 8 6	5 9 21 50	851 845 840 831	20 55 19 6	21 4 0 0	60 62 46 8	14 25 33 42	5 9 21 50	851 845 840 831	23 54 20 3	28 15 5 2	51 55 45 35	13 21 32 34	8 9 18 29	853 848 842 838
<b>How difficult was the science part of this test?</b> A. harder than my regular schoolwork B. about the same as my regular schoolwork C. easier than my regular schoolwork	30 58 12	7 4 3	12 3 13	30 67 15	50 58 65	14 28 4	23 24 17	9 16 1	15 14 4	846 844 849	30 58 12	12 3 13	50 58 65	23 24 17	15 14 4	846 844 849	27 59 13	15 15 21	49 53 51	22 22 18	14 10 10	846 848 850
<b>How hard did you try on the science part of this test?</b> A. I tried harder on this test than I do on my regular schoolwork. B. I tried about the same as I do on my regular schoolwork. C. I did not try as hard on this test as I do on my regular schoolwork.	50 46 4	7 6 1	7 7 13	58 55 0	57 60 0	26 21 3	25 23 38	11 10 4	11 11 50	846 845 834	50 46 4	7 7 13	57 60 0	25 23 38	11 11 50	846 845 834	40 55 5	15 17 12	51 53 41	22 21 25	12 10 22	847 848 843
<b>Which courses do you plan to take before you graduate from high school?</b> A. earth and space science and/or biology B. the course(s) described in A, plus chemistry C. the course(s) described in B, plus physics D. a life science and physical science class	27 23 20 30	3 2 8 1	6 4 20 2	40 22 20 27	74 48 50 46	10 14 9 18	19 30 23 31	1 8 3 13	2 17 8 22	848 842 850 840	27 23 20 30	6 4 20 2	74 48 50 46	19 30 23 31	2 17 8 22	848 842 850 840	25 24 22 29	11 18 30 8	53 53 47 52	23 20 14 27	13 10 8 14	846 849 853 844
<b>How do you feel about the following statement?</b> <i>“My knowledge of science and technology will be useful to me as an adult.”</i> A. strongly agree B. agree C. disagree D. strongly disagree	30 49 18 3	9 4 1 0	15 4 3 0	37 53 19 2	62 54 51 29	12 25 12 3	20 25 32 43	2 17 5 2	3 17 14 29	850 843 842 836	30 49 18 3	15 4 3 0	62 54 51 29	20 25 32 43	3 17 14 29	850 843 842 836	27 54 15 4	23 15 10 7	51 53 50 39	17 21 26 30	9 11 14 24	851 847 845 841
<b>How well does the following statement reflect your future goals?</b> <i>“I am interested in a career related to science, technology, engineering, or mathematics.”</i> A. strongly agree B. agree C. disagree D. strongly disagree	32 34 23 11	11 1 2 0	17 1 4 0	37 38 25 11	58 54 54 48	13 18 13 8	20 26 28 35	3 13 6 4	5 19 13 17	848 843 844 840	32 34 23 11	17 1 4 0	58 54 54 48	20 26 28 35	5 19 13 17	848 843 844 840	25 37 26 12	24 15 12 8	52 50 53 48	15 22 23 28	8 12 12 15	851 847 846 844
<b>Optional school/SAU question</b> A. B. C. D.	31 38 31 0	0 0 0 0	0 0 0 0	2 1 2 2	50 20 50 50	1 3 1 1	25 60 25 25	1 1 1 1	25 20 25 25	841 836 839 0	31 38 31 0	0 0 0 0	50 20 50 50	25 60 25 25	25 20 25 25	841 836 839 0						

E = Exceeds the Standards    M = Meets the Standards    P = Partially Meets the Standards    D = Does Not Meet the Standards  
N = Number